

## WEBER RIVER BASIN

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10128500 WEBER RIVER NEAR OAKLEY, UT

LOCATION.--Lat 40°44'14", long 111°14'50", in NW<sup>1/4</sup>SE<sup>1/4</sup>NE<sup>1/4</sup> sec. 15, T. 1 S., R. 6 E., Summit County, Hydrologic Unit 16020101, on right bank 1.5 mi downstream from South Fork, 2.2 mi upstream from Weber-Provo diversion canal, and 3.2 mi northeast of Oakley.

DRAINAGE AREA.--162 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 790: 1934. WSP 1394: 1907-09, 1911-12, 1921-22. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,640 ft above NGVD of 1929, from topographic map. Prior to October 25, 1933, staff gage at site 0.2 mi downstream at different datum. October 25, 1933 to August 29, 1955, water-stage recorder at present site at datum 0.5 ft higher. August 29, 1955 to October 27, 1981 at present site at different datum. October 27, 1981 to July 21, 1993 at site 0.3 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several small diversions for irrigation above station. Flow slightly regulated by several small lakes on headwaters and a small reservoir on Smith and Morehouse Creek. Total capacity of lakes and reservoir, 10,750 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,170 ft<sup>3</sup>/s, Jun 13, 1921, gage height, 9.0 ft, site and datum then in use, from rating curve extended above 2,000 ft<sup>3</sup>/s; minimum observed, 15 ft<sup>3</sup>/s, Dec 9, 1977, minimum discharge, 15 ft<sup>3</sup>/s, Dec 15, 1990, Feb 27, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 10	----	*767	*2.55				

Minimum daily discharge, 35 ft<sup>3</sup>/s, Dec 16, Jan 22, Feb 1, 12.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	49	e51	e48	e35	e39	154	204	342	149	116	78
2	48	48	e43	e43	e40	e39	163	213	423	141	121	77
3	49	50	e41	e43	e39	e42	174	257	526	131	127	73
4	50	49	e39	e46	e40	e42	170	347	615	125	116	77
5	48	48	e45	e45	e40	e42	181	484	617	117	114	70
6	48	48	e48	e43	e39	e40	193	646	608	120	115	66
7	47	45	e50	e46	e39	e39	199	676	581	130	110	63
8	48	48	e44	e47	e40	e44	208	653	538	127	106	57
9	47	46	e37	e46	e40	53	202	692	485	124	109	54
10	47	49	e45	e44	e36	57	187	694	458	120	110	53
11	47	48	e47	e42	e38	55	180	691	391	117	108	52
12	47	47	e50	e42	e35	58	177	553	349	115	105	52
13	47	48	e49	e41	e37	59	179	452	319	122	102	57
14	47	50	e45	e42	e37	60	184	403	301	128	98	53
15	48	47	e40	e43	e38	59	183	375	298	129	97	52
16	48	49	e35	e42	e39	64	177	364	277	130	98	53
17	47	50	e42	e38	e38	67	171	367	273	156	97	51
18	45	47	e45	e39	e38	71	178	403	277	158	100	50
19	45	47	e43	e42	e39	79	171	474	260	153	98	51
20	45	e48	e42	e37	89	168	509	241	139	94	58	
21	44	e46	e42	e37	e39	98	174	510	234	137	91	55
22	44	e42	e42	e35	e39	113	164	490	217	131	90	53
23	44	e56	e38	e37	e39	127	150	448	201	126	91	52
24	44	e49	e44	e39	e37	134	153	424	189	123	94	52
25	44	e61	e43	e41	e39	143	151	353	184	120	92	50
26	44	e44	e45	e40	e39	148	155	274	173	116	89	50
27	45	e45	e41	e40	e39	130	173	278	165	116	87	49
28	46	e45	e43	e40	e41	124	208	335	159	123	84	49
29	46	e54	e43	e41	e42	128	214	407	165	121	82	52
30	46	e55	e47	e40	---	146	207	369	169	120	81	54
31	48	---	e49	e39	---	150	---	337	---	117	79	---
TOTAL	1,439	1,458	1,358	1,293	1,118	2,539	5,348	13,682	10,035	3,981	3,101	1,713
MEAN	46.4	48.6	43.8	41.7	38.6	81.9	178	441	334	128	100	57.1
MAX	50	61	51	48	42	150	214	694	617	158	127	78
MIN	44	42	35	35	35	39	150	204	159	115	79	49
AC-FT	2,850	2,890	2,690	2,560	2,220	5,040	10,610	27,140	19,900	7,900	6,150	3,400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2004, BY WATER YEAR (WY)

MEAN	79.5	69.4	60.4	56.1	56.3	67.4	178	681	896	263	114	84.9
MAX (WY)	202 (1983)	122 (1913)	105 (1984)	91.2 (1984)	86.1 (1984)	181 (1915)	515 (1986)	1,279 (1910)	2,178 (1914)	1,486 (1909)	259 (1907)	199 (1983)
MIN (WY)	33.8 (1993)	34.4 (2002)	28.8 (1978)	33.2 (2002)	35.0 (1964)	35.9 (1977)	64.2 (1975)	170 (1977)	81.0 (1977)	41.7 (1934)	34.4 (1934)	32.9 (1934)

## WEBER RIVER BASIN

10128500 WEBER RIVER NEAR OAKLEY, UT—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1905 - 2004
ANNUAL TOTAL	56,868	47,065	
ANNUAL MEAN	156	129	
HIGHEST ANNUAL MEAN			217
LOWEST ANNUAL MEAN			415
HIGHEST DAILY MEAN	1,650	May 30	77.4
LOWEST DAILY MEAN	35	Dec 16	1907
ANNUAL SEVEN-DAY MINIMUM	41	Dec 15	1934
ANNUAL RUNOFF (AC-FT)	112,800	93,350	4,170
10 PERCENT EXCEEDS	322	338	Jun 13, 1921
50 PERCENT EXCEEDS	62	57	Dec 1, 1977
90 PERCENT EXCEEDS	45	40	Nov 30, 1977

e Estimated

